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(54) Title: **METHODS FOR IDENTIFYING MODULATORS OF ACTIVE KIT TYROSINE KINASE RECEPTOR**

(57) Abstract: The present invention relates to cell-based assays useful for screening for modulators, such as inhibitors, of activated mutant KIT tyrosine kinase receptors, which are associated with mast cell-related disorders, such as mastocytosis and various types of cancer. The invention further provides for the treatment of mast cell-related disorders with an inhibitor identified by the screening method.

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